
ALL-IN-WONDER® RADEON™ 8500DV
ALL-IN-WONDER RADEON™ 8500
ALL-IN-WONDER® RADEON™ 7500
ALL-IN-WONDER® RADEON™

Installation and Setup User's Guide

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Documentation updates

ATI is constantly improving its product and associated documentation. To maximize the value of your ATI product, you should ensure that you have the latest documentation. ATI's documentation contains helpful installation/configuration tips and other valuable feature information.

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CHAPTER 1

Getting Started

Welcome to the convergence of your PC, TV and video! This new technology changes the way you view TV, graphics, and video on your PC.

The ALL-IN-WONDER RADEON family of cards are powerful TV tuners, DVD players, digital VCRs, and 2D & 3D graphics and video accelerators. Their features will take your PC's graphics and video capabilities to the next level.

This guide provides all the information you need to install your ALL-IN-WONDER RADEON family card.

What is the ALL-IN-WONDER RADEON Family?

The ALL-IN-WONDER RADEON family of cards delivers high-performance 3D and 2D graphics, as well as advanced multimedia features. Play games, watch TV or videos, listen to audio CDs, explore the Internet, and work in Windows® 98, Windows® Me, Windows® 2000, and Windows® XP as never before.

TV-On-Demand and TV Listings enhance your television experience. Using an attached video camera, the ALL-IN-WONDER RADEON family provides time-lapse video capture and motion-triggered video capture, which can be used for security applications. Your card's advanced video capture and editing features also give you Video CD and DVD authoring capability.

The ALL-IN-WONDER RADEON 8500DV's two IEEE 1394 (Fire Wire) connectors allow easy connection of multimedia peripherals such as digital camcorders.



You can use your ALL-IN-WONDER RADEON family card to connect your computer to a television. This feature is ideal for playing games, giving presentations, watching movies, and browsing the Internet. (For more information, see [*Attaching a TV to Your Card*](#) on page 30.)

The ALL-IN-WONDER RADEON family also turns your PC into an intelligent TV with the following features:

- TV-On-Demand™
- Zoom-in
- Scheduled Viewing
- Channel Scanning
- Video capture
- Closed Captioning with “Hot Words” (North America and selected countries only)
- Program transcript recording (North America only)
- TV magazine (North America only)
- Digital VCR with real-time video compression
- Interactive Program Guide (North America only)
- AC-3 Digital Audio playback supporting Dolby® 5.1 surround sound
- Remote control

System Requirements

Computer system	<ul style="list-style-type: none"> • Pentium® 4 / III / II / Celeron™, AMD® K6/Athlon®, or compatible with AGP 2X or AGP 2X/4X bus slot. • 64MB of system memory. • Installation software requires CD-ROM or DVD drive. • DVD playback requires DVD drive. • Sound card supported by Windows® with available line input. • Interactive Program Guide requires internet connection. • Remote control receiver requires available USB port.
Expansion Slot	PCI cards use a PCI slot; AGP cards use an AGP 2x/4x slot.
Operating System	<p>Windows® 98/SE, Windows® Me, Windows® 2000, Windows® XP.</p> <p>Note: The ALL-IN-WONDER RADEON 8500 and 8500DV do not support the Windows 98/98SE operating system.</p>
Monitor	<p>VGA, supporting minimum 640x480 resolution. A Plug-and-Play monitor that supports VESA's Display Channel specifications (DDC1 or DDC2b) is required to take advantage of the DDC1/DDC2b features.</p> <p>The DVI-I interface on ALL-IN-WONDER RADEON family cards can be used to attach a DVI display or an analog VGA monitor, using the supplied DVI-I-to-VGA adapter.</p> <ul style="list-style-type: none"> • The PCI version of ALL-IN-WONDER RADEON does not support DVI-I. <p>Hydravision™ technology supports DVI or CRT monitor and television.</p>

Other Sources of Information

If you need additional help or require information that is not included in this guide, see the following sources:

Online Help



If you require additional information, you can refer to the online help available under Windows® 98, Windows® Millennium Edition, Windows® 2000, or Windows® XP for more information about using ATI's enhanced drivers.



For information on your card's graphics features, double-click the ATI icon in the lower-right corner of your screen.

Online manual



Your ALL-IN-WONDER RADEON family card comes with localized online manuals that describe the extensive features of your card.

To open the online manual

- 1** Insert the ATI INSTALLATION CD-ROM into your CD-ROM drive.

If Windows runs the ATI INSTALLATION CD-ROM automatically, proceed to step 5.

- 2** In the Windows® taskbar, click **Start**.
- 3** Click **Run...**
- 4** Type the following: **D:\ATISSETUP**
(or substitute your CD-ROM drive letter.)
- 5** Click the Online Manual icon.

ATI Multimedia Center Guide

The *ATI Multimedia Center User's Guide* that came with your card explains how to use the special features that the ATI Multimedia Center provides.

CHAPTER 2

Installing the Hardware and Software

Installing your card consists of three, easy steps.

- **Placing the card in your computer**
- **Installing ATI's enhanced display drivers**
- **Attaching input and output cables and optional TV, VCR, camcorder, etc.**

This chapter explains how to place the card in your computer, how to install the software, and how to connect the input and output cables.

BEFORE installing your Card ...



Turn off the power to your system, and discharge your body's static electric charge by touching a grounded surface — for example, the metal surface of the power supply — before performing any hardware procedure.

The manufacturer assumes no liability for any damage, caused directly or indirectly, by improper installation of any components by unauthorized service personnel. If you do not feel comfortable performing the installation, consult a qualified computer technician.

Damage to system components, the accelerator card, and injury to yourself may result if power is applied during installation.

Uninstalling your current video card and driver

Before you install your ALL-IN-WONDER RADEON family card, it is important that you remove the current video card and its driver. You can remove most video card drivers from Windows® via an uninstall utility provided by the card's manufacturer — typically, this is an entry in the Programs menu. If no manufacturer-provided uninstall utility is provided, you can remove the driver by selecting it from the Add/Remove Programs menu in the Windows® Control Panel.

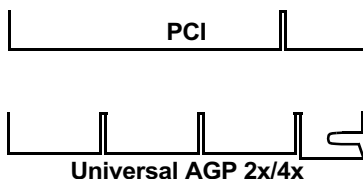
When the graphics card driver has been removed, the system should reboot.

- 1** Check the Display Properties page in Windows® to ensure that the driver has been removed and the system is running the “Standard PCI Graphics Adapter” (VGA) driver. If it is not, use the Change option in the Advanced menu of the Display Properties page to change the driver.
- 2** Click **Start> Settings> Control Panel>Add/Remove Programs**, and remove all existing ATI software, such as ATI Display Driver, ATI DVD Player, ATI HW DVD Player, ATI Video Player.

When the graphics card driver has been removed from Windows®, you can shut down your computer and install your ALL-IN-WONDER RADEON family card.

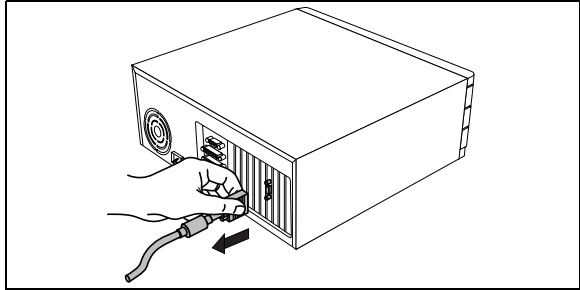
Installing the Hardware

Now that you have prepared your computer, you are ready to install your card. If you are not sure whether your card is PCI or AGP, compare the bottom edge of your card with the following illustration:



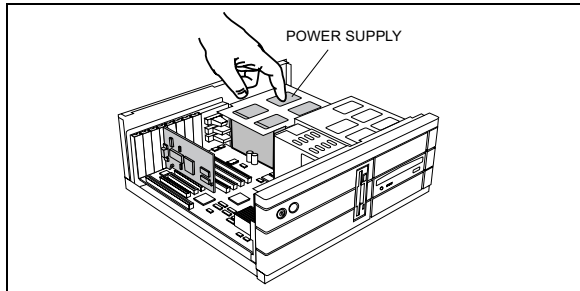
To install your card

- 1** Power off the computer and monitor, then disconnect the display cable from the back of your computer.



- 2** Remove the computer cover. If necessary, consult your computer's manual for help in removing the cover.

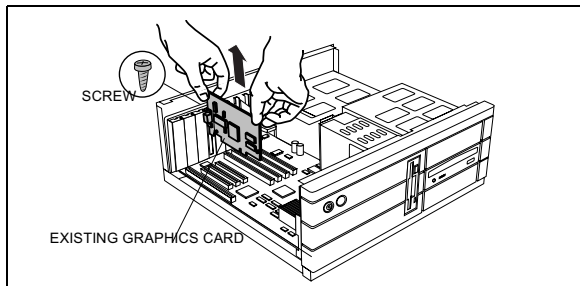
Remember to discharge your body's static electricity by touching the metal surface of the computer chassis.



- 3** Remove any existing graphics card from your computer.

If the old graphics card sticks, rock it gently from end to end.

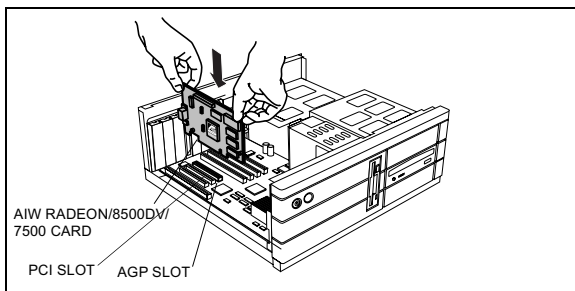
Remember to save the screw.



Or, if your computer has any on-board graphics capability, you may need to disable it on the motherboard. For more information, see your computer documentation.

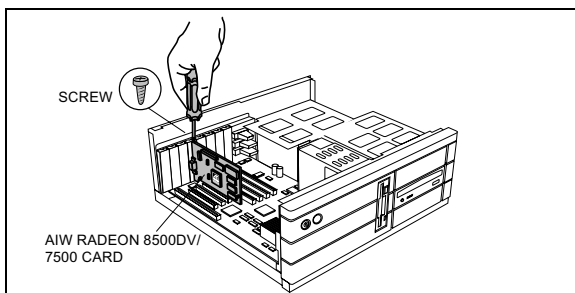
- 4** Locate the appropriate slot (AGP or PCI). If necessary, remove the metal cover from this slot, then align your ALL-IN-WONDER RADEON family card with the appropriate slot, and press it in firmly until the card is fully seated.

*Grasp the ALL-IN-WONDER RADEON family card by the top edge and carefully seat it into the correct slot (AGP or PCI). Ensure that the metal contacts are **completely** pushed into the slot.*



Note: AGP 4x/2x cards can be used in either AGP 4x or AGP 2x slots.

- 5** Replace the screw to fasten the card in place, and replace the computer cover.

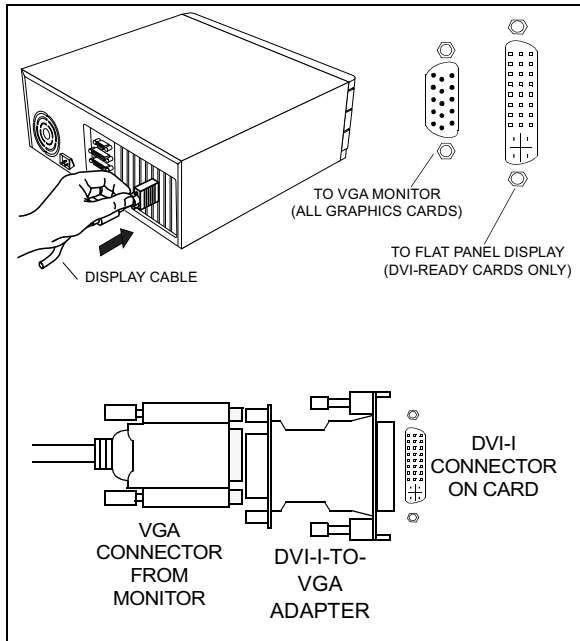


6

Plug the display cable into your card, then turn on the computer and monitor. If your ALL-IN-WONDER RADEON family card came with a DVI connector, you can connect a flat panel display to the appropriate connector, as shown below.

Make sure all cables are securely connected.

Note: The PCI version of ALL-IN-WONDER RADEON does not provide a DVI-I connector.



You are now ready to proceed with the installation of the ATI driver. For detailed instructions, select your operating system from the list below:

- Windows® 98 / Windows® Me, see [Windows® “New Hardware Found”](#) on page 14.
- Windows® 2000 / Windows® XP, see [page 15](#).

Windows® “New Hardware Found”

New hardware will be detected after you restart your computer. To finish setting up your hardware click **Yes** when prompted to restart.

To identify new hardware in Windows® 98, Windows® Me, Windows® 2000 or Windows® XP

- 1 Windows® may launch the “Update Device Driver Wizard” to install the Standard VGA Driver. If it does, follow the step-by-step instructions below to allow Windows® to correctly identify your new hardware.

If the Wizard does not appear, proceed directly to [Installing the ATI Driver for Windows® 98 / Windows® Me / Windows® 2000 / Windows® XP](#) on page 15.

- 2 Click **Next**.
- 3 Click **Finish**.
- 4 Insert your Windows® CD into your CD-ROM drive.
- 5 Click **OK**.
- 6 Type the following:
D:\Install\R69x or D:\Install\R6ME or D:\InstallR62k or D:\Install\R6xp
(If **D** is not your CD-ROM drive, substitute the correct drive letter.)
- 7 Click **OK**.
- 8 Click **Yes** to restart your computer.

You are now ready to install the ATI driver. Proceed to [Installing the ATI Driver for Windows® 98 / Windows® Me / Windows® 2000 / Windows® XP](#) on page 15, and follow the step-by-step instructions to complete the installation.

Note

The ALL-IN-WONDER RADEON 8500 and 8500DV do not support the Windows 98/98SE operating system.

Installing the ATI Driver for Windows® 98 / Windows® Me / Windows® 2000 / Windows® XP

With Windows® 98, Windows® Me, Windows® 2000, or Windows® XP running on your computer, you need to install the ATI driver to take advantage of the higher performance, resolutions, and special graphic features of the ALL-IN-WONDER RADEON family.

To ensure you install the latest driver, use the ATI Installation CD that shipped with your ALL-IN-WONDER RADEON family card.

To install the ATI driver

- 1** Insert the ATI INSTALLATION CD into your CD-ROM drive.
If Windows® runs the CD automatically, proceed to step 6.
- 2** Click **Start**.
- 3** Select **Run**.
- 4** Type the following:
D:\SETUP
(If **D** is not your CD-ROM drive, substitute the correct drive letter.)
- 5** Click **OK**.
- 6** Click on **ATI Easy Install** to begin the Installation Wizard.
- 7** Click **Next**.
- 8** Click **Yes** to the license agreement.
- 9** Follow the Wizard's on-screen instructions to complete the installation.

*The **Express** installation option is recommended. The multimedia components will automatically be installed, along with the ATI driver, by selecting this option.*

Multiple Display Support

If you use multiple monitors, the ALL-IN-WONDER RADEON family card must be the primary graphics card. Normally, the system BIOS determines whether the AGP or PCI card will be the primary.

For PCI cards, the system normally assigns priority to the card slots in order of their appearance. Please read the **Readme** file on the ATI Installation CD for the latest information regarding Multiple Display Support.

Increasing the number of colors

1 Right-click on a clear area of your desktop, then click **Properties**.

2 Click **Settings**.

*If you are using multiple monitors, click the monitor icon whose color depth you want to change. If you click a secondary monitor and **Extend my Windows desktop onto this monitor** is not checked, you cannot change that monitor's settings. Each monitor has its own color settings.*

3 In the **Colors** box, select **High Color (16 bit)**, **True Color (24 bit)** or **True Color (32 bit)**.

Your type of monitor and video adapter determine the maximum number of colors.

The ALL-IN-WONDER RADEON family's advanced 3D acceleration gives you detailed color graphics and 3D features like multi-texturing, alpha blending, and fog effects. ALL-IN-WONDER also provides powerful 2D graphics features through the Display Properties pages:

Settings	Customize your desktop settings such as desktop size, screen resolution and color depth, and store various desktop preferences for easy recall later.
Adjustment	Adjust the position and size of your screen, as well as manipulate the screen refresh rate, frequencies and synchronization.
Color Correction	Correct color tone differences between real color values and the way your monitor displays them, and store various color correction preferences for easy recall later.



The ALL-IN-WONDER RADEON family display drivers on your ATI Installation CD-ROM are the latest and fastest available, but at ATI, we are constantly improving our products, so check the ATI web site at **www.ati.com** for newer software.

- 1** Click **North America** or **Europe**.
- 2** Click **Drivers / Updates**, then click **Retail Generic - Supported**.



Drivers downloaded from the ATI website:

- Double-click the self-extracting executable file to start the installation.

Note

Windows will automatically reboot your system after the drivers are installed.

Using the Online Manual

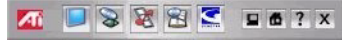
The ALL-IN-WONDER RADEON family card comes with an online manual that describes its advanced features. The Online Manual provides reference, specification, disclaimer, legal, and compliance information that is not contained in this guide.

To open the Online Manual

- 1** Insert the ATI INSTALLATION CD into your CD-ROM drive.
If Windows[®] runs the CD automatically, proceed to step 6.
- 2** Click **Start**.
- 3** Select **Run**.
- 4** Type the following:
D:\SETUP
(If **D** is not your CD-ROM drive, substitute the correct drive letter.)
- 5** Click **OK**.
- 6** Click Online User Manual.

Starting the ATI Multimedia Center

From LaunchPad. The LaunchPad provides a convenient way to start all your Multimedia Center features — just click the one you want. LaunchPad opens automatically when you start your computer, or if you prefer, you can right-click LaunchPad, and uncheck **Load on Startup** in the drop-down menu to disable this feature.



From Windows® taskbar.

- 1** In the Windows taskbar, click **Start**.
- 2** Point at **Programs ►**.
- 3** Point at **ATI Multimedia Center ►**.
- 4** Click **TV, Video CD, or File Player**.

Note

The first time you launch TV, you must complete the Initialization Wizard. After that, the Wizard will not run unless you want to re-run it.

The Initialization Wizard guides you through setting up TV channels, Parental Control, Sound, and TV-on-Demand.

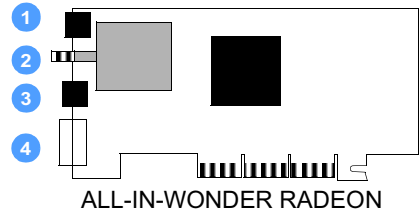
For information on the ATI Multimedia Center, see the online help.

Input and Output Adapters

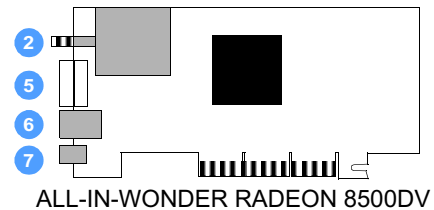
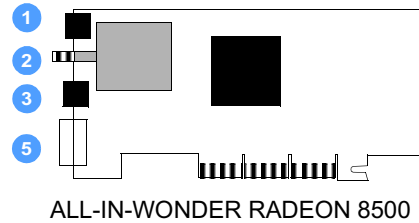
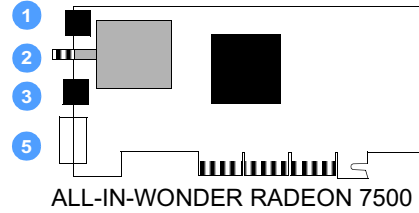
Your ALL-IN-WONDER RADEON family card uses input and output adapters that let you connect audio and video devices to the card — TV, VCR, laserdisc player, camcorder, and DV camcorder.

Note

To hear sound when you use your ALL-IN-WONDER RADEON family card's TV feature, ensure that your card is connected to the **line-in** connector of your sound card: see [page 22](#). For information on the CD audio connectors see [page 47](#).



- 1 Video In
- 2 CATV In
- 3 Video Out
- 4 DVI / VGA Out
- 5 DVI-I Out
- 6 Connect to ATI Input/Output Adapter
- 7 IEEE 1394/FireWire port



Note

The ALL-IN-WONDER RADEON family cards detect copy-protected input video sources, and will not capture video from such sources. Many VHS tapes and DVD discs are copy-protected, which protects them from being copied onto your computer.

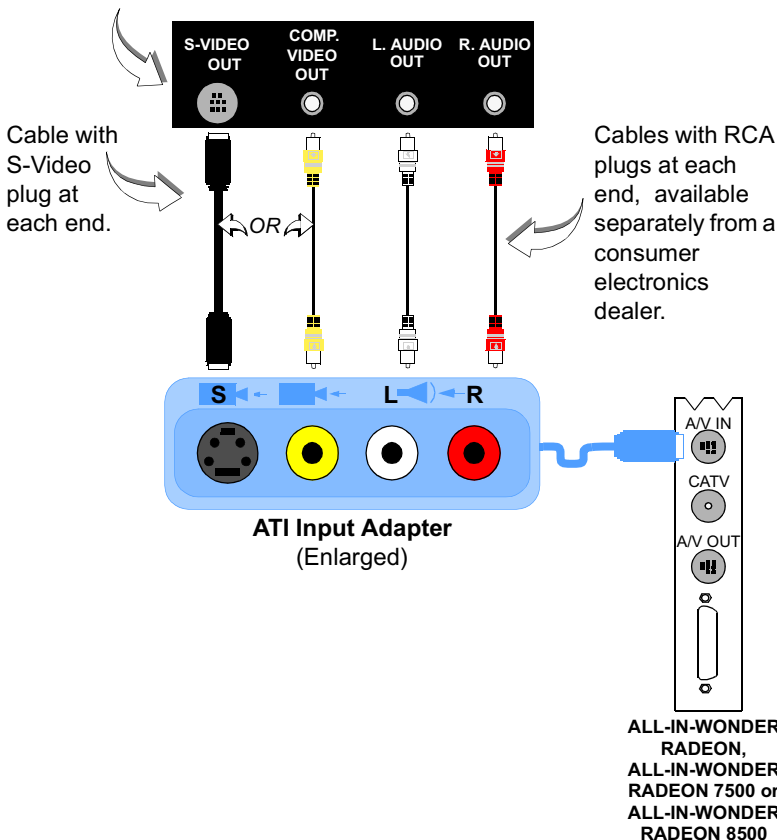
**ALL-IN-WONDER
RADEON,
ALL-IN-WONDER
RADEON 7500 or
ALL-IN-WONDER
RADEON 8500**

To watch movies on your PC or capture video from your VCR, camcorder, or laserdisc player

Use the ATI input adapter to connect a VCR, camcorder, or laserdisc player to your ALL-IN-WONDER RADEON, ALL-IN-WONDER RADEON 7500 or ALL-IN-WONDER RADEON 8500 card, as shown.



The audio and video **output** connectors on your VCR, camcorder, or laserdisc player will be similar to these. Use composite video out **or** S-video out. S-Video will provide better results.



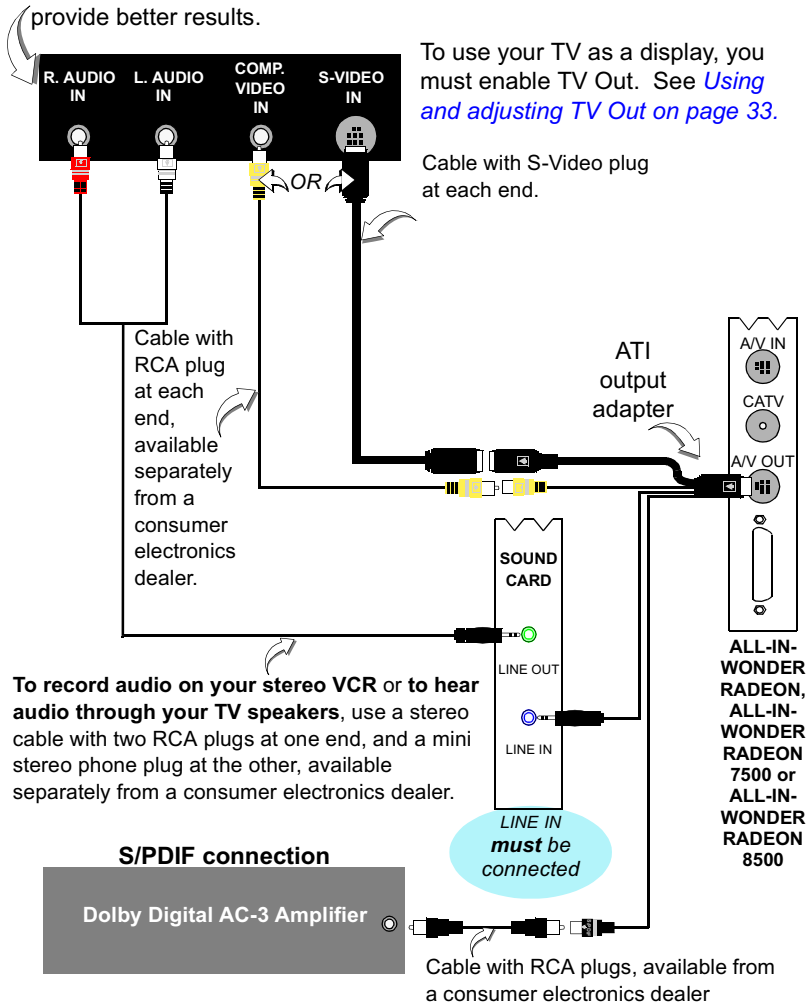
**ALL-IN-WONDER
RADEON,
ALL-IN-WONDER
RADEON 7500 or
ALL-IN-WONDER
RADEON 8500**

To display your PC output on TV and record your PC output on videotape

Use the ATI output adapter to connect a TV, camcorder, or VCR to your ALL-IN-WONDER RADEON, ALL-IN-WONDER RADEON 7500 or ALL-IN-WONDER RADEON 8500 card, as shown.



The audio and video **input** connectors on your TV, camcorder, or VCR will be similar to these. Use COMPOSITE VIDEO IN **or** S-VIDEO IN. S-Video will provide better results.



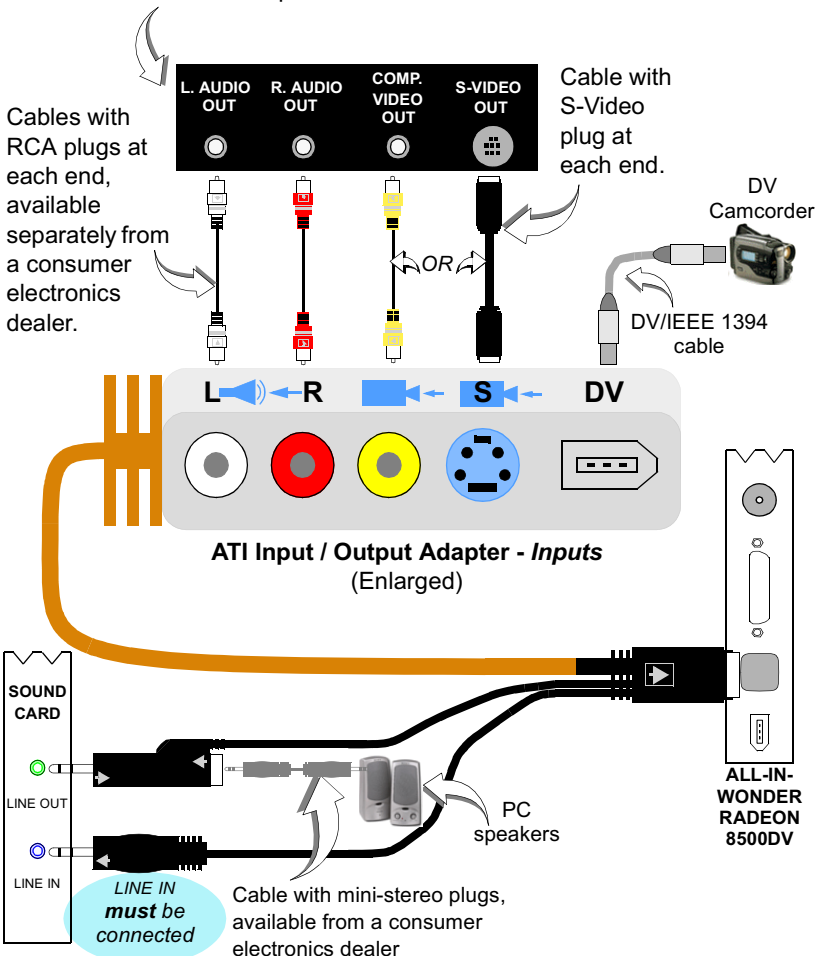
**ALL-IN-WONDER
RADEON 8500DV**

To watch movies on your PC or capture video from your VCR, camcorder, DV camcorder or laserdisc player

Use the ATI input/output adapter to connect a VCR, camcorder, DV camcorder, or laserdisc player to your ALL-IN-WONDER RADEON 8500DV card, as shown.



The audio and video **output** connectors on your VCR, camcorder, or laserdisc player will be similar to these. Use composite video out **or** S-video out. S-Video will provide better results.



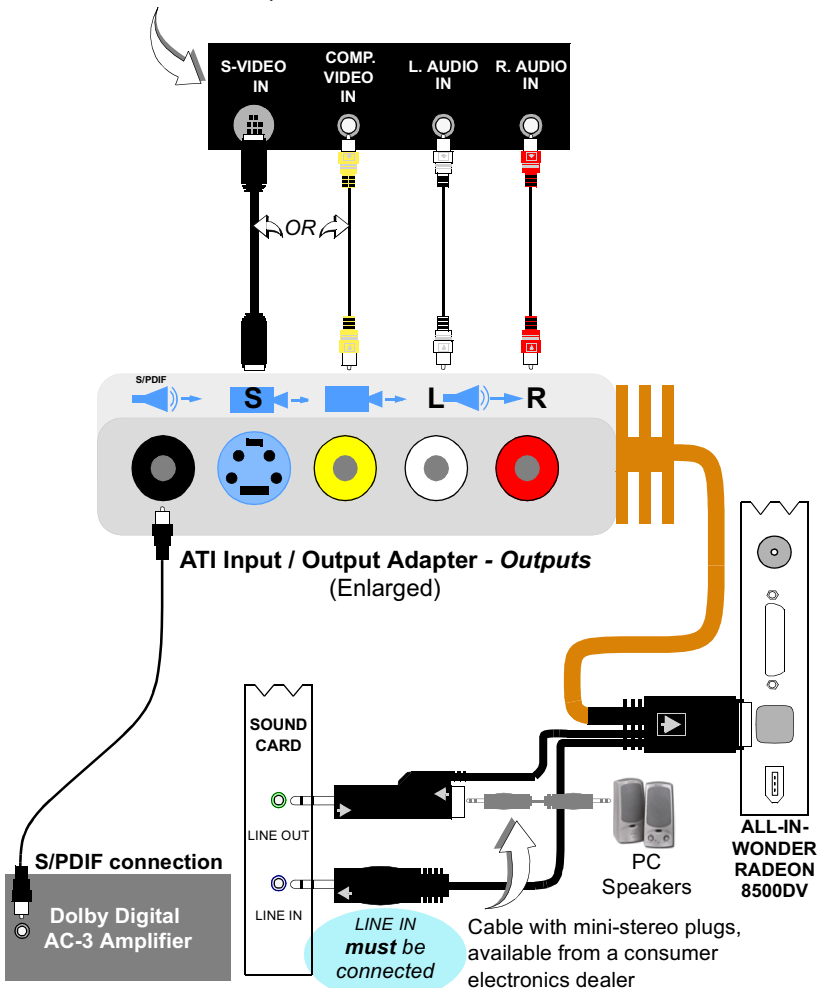
**ALL-IN-WONDER
RADEON 8500DV**

To display your PC output on TV and record your PC output on videotape

Use the input/output adapter to connect a TV, camcorder, DV camcorder, or VCR to your ALL-IN-WONDER RADEON 8500DV card, as shown.

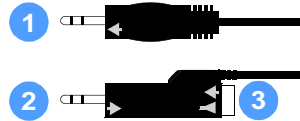


The audio and video **input** connectors on your TV, camcorder, DV camcorder, or VCR will be similar to these. Use composite video in or S-video in. S-Video will provide better results.



ALL-IN-WONDER RADEON 8500DV connector notes

The ATI input/output connector uses three connectors to carry audio between your computer and connected devices.




1 **Must** be plugged into your sound card's LINE IN connector in order for you to hear and capture sound from input devices.

2 Plugging this into your sound card's LINE OUT or SPEAKER OUT connector enables left and right sound output from the output side of the input/output adapter. This lets you send audio to your camcorder, VCR, etc.

3 Plugging your speakers into this sends audio to your speakers as well as to attached devices (camcorder, VCR).

Windows[®] Volume Control

For correct audio performance, your sound card's line input must be active. To display the Line Input setting in the Windows[®] Volume Control panel:


- 1** Right-click the speaker icon  in the Taskbar (usually in the lower-right corner of your screen).
- 2** Click **Open Volume Controls**.
- 3** If the Line-In volume slider is not visible, click **Options**, then click **Properties**.
- 4** Click the **Line-In** volume control checkbox, then click **OK**. If the **Mute** checkbox is checked, click it to cancel muting.

If the speaker icon is not in your Taskbar, do the following:

- In the Windows taskbar, click **Start**, point to **Settings**, then click **Control Panel**.
- Double-click **Multimedia**.
- In the **Audio** tab, check **Show volume control on Taskbar**.

To select the sound card connector for TV audio input

The sound card connector determines which mixer slider is controlled by the ATI Multimedia Center's volume slider.

- 1**  Click the **Setup** button in the TV Player control panel, then click the **Display** tab.
- 2** Click the **Initialization Wizard** button, then click the **Next** button twice to open the TV Sound Initialization Wizard.
- 3** Click the audio input that matches the connection between your ATI card and your sound card. If you are not sure how it is connected, click each source (CD Audio, Line-In, etc.), and listen for the sound.

Troubleshooting Tips

- Check that the card is seated properly in the correct slot.
- Ensure the display cable is securely fastened to the card's display connector.
- Make sure that the monitor and computer are plugged in and receiving power.
- If necessary, disable any built-in graphics capabilities on your motherboard. For more information, consult your computer's manual or manufacturer. (NOTE: Some manufacturers do not allow the built-in graphics to be disabled or to become the secondary display.)
- Make sure you selected the appropriate display device and graphics card when you installed the ATI driver.
- For more troubleshooting tips, right-click the ATI icon in the taskbar and select **Troubleshooting**.
- If you have problems during bootup, start your computer in **Safe Mode**. Press and hold the CTRL key until the Microsoft® Windows® Startup Menu appears on the screen. Then select the number for **Safe Mode**, and press **Enter**. (You can also use F8 to bring up the Microsoft Windows® Startup Menu.) In **Safe Mode**, bring up the **Device Manager** and check for duplicate display adapter and monitor entries if you are only using one graphics card.
- For more assistance, use the **Troubleshooting Guide** located in the Windows® Help or contact your computer manufacturer.
- To contact **ATI Technical Assistance**, see your **Technical Support and Warranty Service** guide

CHAPTER 3

Using Your ALL-IN-WONDER RADEON Family Card

For comprehensive information on ALL-IN-WONDER RADEON family card's multimedia features, please see the *ATI Multimedia Center User's Guide* that came with your card.

For correct operation of your card's multimedia features, the ALL-IN-WONDER RADEON family card must be your computer's primary graphics card. For more information, see [Multiple Display Support](#) on page 16.

Connecting your PC to a video source

To connect your computer to a VCR or camcorder, attach a connector cable from the VCR or camcorder to the ATI Input/Output Adapter. Most VCRs and camcorders have a Composite video output, also referred to as a phono jack or RCA output. For detailed instructions, see [Input and Output Adapters](#) on page 19.

A growing number of VCRs and camcorders have another type of video output called S-Video, which provides a higher quality display than Composite video.

The ALL-IN-WONDER RADEON 8500DV provides two FireWire connectors (also called IEEE 1394 and i.LINK), which are ideal for use with multimedia peripherals such as DV camcorders.



Composite
Video



S-Video



DV

To connect a VCR or camcorder to your ALL-IN-WONDER RADEON family card

- 1** Turn off your computer and your VCR or camcorder.
- 2** Ensure your graphics card is installed correctly.
- 3** Determine if your VCR or camcorder has an S-Video, Composite, or DV video connection.
- 4** Looking at the back of your computer, locate your graphics card. Using the ATI Input/Output Adapter, attach one end of the cable to your graphics card and the other to your VCR or camcorder.

***Note:** ALL-IN-WONDER RADEON family cards use different connectors. See [Input and Output Adapters](#) on page 19.*

- 5** Turn on your computer and your VCR or camcorder.

Attaching a TV to Your Card

Using your ALL-IN-WONDER RADEON family card's Composite or S-Video output, you can connect a television set as your computer's display. You can use your card to view computer output directly on your television. Depending upon your television, you can choose NTSC or PAL formats. You can display images on both the TV and VGA monitor simultaneously.

The ALL-IN-WONDER RADEON family card provides a big-screen experience for entertainment PCs that is ideal for playing games, giving presentations, watching movies, and browsing the Internet, and you can record videotapes of your computer's display.

Note

DVI digital flat panel and television display cannot be used simultaneously. If you are recording a videotape, you will need a television monitor to view while you record.

To connect your graphics card to a television

- You must attach a TV before enabling TV output
- In order to record audio on your VCR or hear audio through your TV speakers, you must connect the audio cables (see [page 22](#)).
- If your television has cable input only, which is the case for older units, you can connect your graphics card to your television using your VCR or an RF modulator (available at most consumer electronics dealers) that accepts audio input. Connect the ALL-IN-WONDER RADEON family card's audio output to the RF modulator's audio input.

- 1 Turn off your computer and your television.
- 2 Determine if your television has an S-Video connection or an RCA video-in connection.
- 3 Looking at the back of your computer, locate your graphics card.
- 4 Connect the supplied output cable adapter to the A/V OUT connector on the card (see [Input and Output Adapters](#) on page 19).
- 5 Using a cable with either S-Video or RCA connectors, attach one end of the cable to the output cable adapter and the other to your television.
- 6 Turn on your computer and your television.

If there is no display, you may need to enable the television output capability; see [Using and adjusting TV Out](#) on page 33.

For detailed cabling diagrams and audio connections, see [Input and Output Adapters](#) on page 19.

If you have a television connected to your VCR, you can use the television as your computer's display. For information about connecting a television to your VCR, see the documentation that came with your VCR.

Note

If you have a television connected to a VCR that is connected to the ALL-IN-WONDER RADEON family card's A/V OUT, and you use the television as your computer's display, copy-protected DVD movies may appear alternately bright and dim.



IMPORTANT INFORMATION for European Customers

Some PC monitors in Europe **cannot** be used simultaneously with television display. When you enable television display in Europe, the refresh rate for the monitor and television is set to 50Hz. Some monitors may not support this refresh rate and could be damaged.

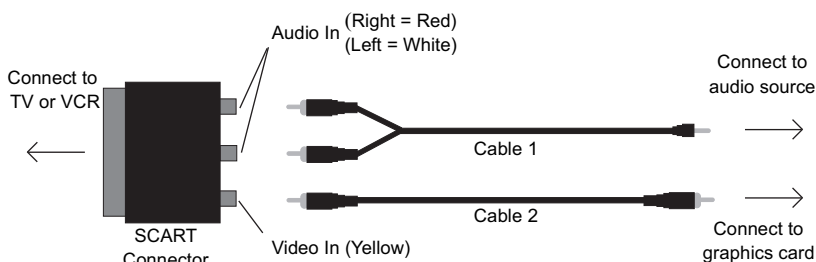
- Please check the documentation supplied with your monitor to see if your monitor supports a refresh rate of 50Hz.

If your monitor does not support 50 Hz (or if you are not sure), then turn off your monitor before turning on your computer when using your television as a display.

For information on disabling television display, see [To enable and disable the television display](#) on page 33.

Some televisions in Europe may use an SCART connection. If you use SCART, please read [Using SCART connectors for European televisions](#) on page 32 before attempting to connect your PC to your television.

Using SCART connectors for European televisions



Using an SCART connector with a Composite cable

The SCART connector supports only the Composite video format, which is the most common type. The above illustration shows how to connect to an SCART connector using a Composite cable.

If your television supports S-Video input, you should use an S-Video cable (available in most consumer electronics stores) to view your PC on a television. An S-Video connection produces a higher quality display than Composite video.

Using and adjusting TV Out

To enable and disable the television display

- 1** Start Windows®.
- 2** Click **Start**.
- 3** Point to **Settings**, then click **Control Panel**.
- 4** Double-click **Display**.
- 5** Click the **ATI Displays** tab.
*Windows® 98 users click the **Advanced...** button, then click the **ATI Displays** tab.*
- 6** Click the green **enable/disable** button next to the word "TV" to enable/disable television display.
- 7** Click **OK** or **Apply** to save the changes you have made.
*For information about how to use television display and the **ATI Displays Properties** page, click the **Help** button.*

Starting Windows® with television display enabled

The television screen may become scrambled temporarily during the initial Windows® logo display. This is only a temporary effect, and your television screen will be restored within a few seconds.

During start up, your TV Out graphics card will go through a sequence of mode settings, during which your television display will remain blank. This process takes only a few seconds and helps program the television display.

Using a monitor vs. using the television display

Using your television for your computer's display is ideal for playing games, giving presentations, watching movies, and browsing the Internet. The display on your monitor may change or look squashed. This occurs because the display adjusts to fit the dimensions of your television. To correct the monitor's display, use the controls on the monitor to adjust the display size and position.

Older monitors and large, speciality monitors may not work with television display enabled. If you experience problems when television display is enabled, disable television display to restore your monitor's display.

Adjusting the monitor display

The size of the display on your monitor may be smaller and not perfectly centered when you have television display enabled. These effects are caused by the changes required to provide a proper display on the television.

Use the controls available on the Adjustments tab on the Monitor Properties page (click the **Monitor** button on the ATI Displays page) to adjust the display on your monitor only. Click the **Television** button to adjust the television display only.

TV reception tips



- In the TV Tuner tab, ensure that you click the correct setting for cable or antenna.
- For the best indoor antenna reception, use an amplified model, and move it as far away from your monitor as possible.
- If you experience problems with cable input, a signal amplifier may improve reception.

Viewing text on television

Due to the different technology used in the manufacturing of televisions and PC monitors, standard PC text may be unreadable on your television. You can compensate for this by using larger fonts.

To use larger display fonts

- 1** Start Windows®.
- 2** Click **Start**.
- 3** Point to **Settings**, then click **Control Panel**.
- 4** Double-click **Display**.
- 5** Click the **Settings** tab.
- 6** In the **Font Size** box, select the size you want your displayed fonts to be.
*Windows® 98 users click the **Advanced...** button then select your font size.*
- 7** To customize the size of displayed fonts, select **Custom** or **Other**.
- 8** Click the **OK** button, then click the **Close** button. Click the **Yes** button to restart your computer and use your new settings.

Reducing edge distortion

When using a television for your PC's display, you may see some edge distortion on the left and right side of your television screen. This effect depends on your television and the PC application you are running. To reduce edge distortion, you can increase the horizontal size.

To increase the horizontal size

- 1** Start Windows®.
- 2** Click **Start**.
- 3** Point to **Settings**, then click **Control Panel**.
- 4** Double-click **Display**.
- 5** Click the **ATI Displays** tab.
*Windows® 98 users click the **Advanced...** button, then click the **ATI Displays** tab.*
- 6** Click the **TV** button.
- 7** Click the **Adjustments** tab.
- 8** Click the plus (+) button under Horizontal Screen to increase the horizontal size of the television display.
- 9** Click **OK** or **Apply** to save the changes you have made.

You can also reduce edge distortion by reducing the brightness.

To change the brightness

- 1** Start Windows®.
- 2** Click **Start**.
- 3** Point to **Settings**, then click **Control Panel**.
- 4** Double-click **Display**.
- 5** Click the **ATI Displays** tab.
*Windows® 98 users click the **Advanced...** button, then click the **ATI Displays** tab.*
- 6** Click the **TV** button.
- 7** Drag the **Brightness slider** to the left to decrease the brightness.
- 8** Click **OK** or **Apply** to save the changes you have made.

Changing display configurations

If you move your computer to a place where you are using television display only, make sure that you have the television display feature enabled first; see [*To enable and disable the television display*](#) on page 33.

Using games and applications

Some older games and applications may program the graphics card directly to run under a specific display mode. This may cause your television display to turn off automatically or become scrambled (the PC monitor will not be affected). Your television display will be restored once you exit the game or if you restart your system.

CHAPTER 4

Reference

This chapter contains troubleshooting tips for your ALL-IN-WONDER RADEON family card.

Troubleshooting

The following troubleshooting tips may help if you experience problems. ATI's documentation contains helpful installation/configuration tips and other valuable feature information. Please contact your dealer for more advanced troubleshooting information.

Basic troubleshooting tips

<i>Problem</i>	<i>Possible Solution</i>
No video	<ul style="list-style-type: none">• Check that the card is seated properly in its expansion slot. If the problem still exists, try a different expansion slot.• Ensure that the monitor cable is securely fastened to the card.• Make sure that the monitor and computer are plugged in and receiving power.• If necessary, disable any built-in graphics capabilities on your mother board. For more information, consult your computer's manual or manufacturer. (Note: some manufacturers do not allow the built-in graphics to be disabled or to become the secondary display.)• Make sure that you selected the appropriate monitor when you installed your enhanced driver.
Poor TV reception	<ul style="list-style-type: none">• If you use an indoor antenna, you will get the best results with an amplified model. Place it as far away from the PC monitor as possible, to avoid interference.• Splitting the cable or antenna input can reduce the signal quality. For the best reception, connect the cable or antenna directly to your card.
No sound	<ul style="list-style-type: none">• Make sure that your audio card's line input is active (see Windows® Volume Control on page 25).

Troubleshooting tips

For troubleshooting tips, right-click the ATI icon in the taskbar, and select **Troubleshooting**.

If you have problems during start-up, start your computer in Safe Mode.

To load Windows® in Safe Mode

- 1** Turn on your computer.
- 2** Press and hold the **CTRL** key until the Windows Startup Menu appears, then select the number for Safe Mode, and press **Enter** (on some computers, you can press F8 instead of CTRL to display the Windows® Startup Menu). In Safe Mode, open the Device Manager and check for duplicate display adapter and monitor entries if you are using only one graphics card.
 - Disable any programs that start automatically when you start Windows®.
 - Check that you have the correct monitor and display driver selected in the Display Properties. For more information, click Help in the Start menu.
 - Check for the existence of memory managers and ensure they are configured properly.
 - Refer to additional information in the Windows® README file located in the root directory on the ATI Installation CD-ROM.
- For technical assistance, refer to your technical support documentation, or contact your vendor.

If you don't hear audio, make sure that your audio card's line input is active (see [Windows® Volume Control](#) on page 25).

Audio and Video Troubleshooting

Audio problems ...

No Sound


Check your speakers:

If you have external speakers, ensure that they are powered-on (POWER indicator light is on) and connected to the LINE-OUT or SPEAKER OUT connectors on your sound card.


Connect the Line-In connector to your sound card **first**. See illustrations on [page 22](#), [page 23](#), and [page 24](#).

Still no sound?

Play a .WAV sound:

- 1 Click **Start**, point at **Settings**, select **Control Panel**, then double-click **Sounds**.
- 2 In the **Events** area, Click **Asterisk**, then click a .WAV file in the **Sound** area.
- 3 Click the Play button  to preview the sound.

If you still do not hear any sound, open the Volume Control:

Click **Start**, point at **Programs**, point at **Accessories**, point at **Entertainment**, then select **Volume Control**. Or, right-click the speaker icon  (usually in the lower-right corner of your screen), then click **Open Volume Controls**.



If the speaker icon is not in your Taskbar, do the following:

In the Windows Taskbar, click **Start**, point to **Settings**, click **Control Panel**, then double-click **Multimedia**. In the **Audio** tab, check **Show volume control on the Taskbar**.

- Ensure that the Volume Control and the Wave channel are not muted or set very low.

When you hear sound from your speakers, you know they are working.

If you still experience audio problems, check the audio connections to your ALL-IN-WONDER RADEON family card.

No sound from TV	Ensure that the audio connection between your ALL-IN-WONDER RADEON family card and your sound card is correct. For instructions, see Input and Output Adapters on page 19 .
Can't capture sound	<p><i>Check the record mixer settings:</i></p> <ol style="list-style-type: none"> 1 Click Start, point at Programs, point at Accessories, point at Entertainment, then select Volume Control. Or, right-click the speaker icon  (usually in the lower-right corner of your screen), then click Open Volume Controls. 2 In the Volume Control menu, click Options, click Properties, click Recording, then click OK. The Recording Control opens. 3 Ensure that Line (or the Audio input you selected in the <i>TV Sound Initialization Wizard</i> — see page 26) is checked, then click  to close the dialog.
Can't capture sound when recording from a videotape	<p><i>Connect the VCR audio output to your PC:</i></p> <p>Left and right audio output from your VCR must be connected to your ALL-IN-WONDER RADEON family card (note that S-Video does not provide an audio connection). For instructions, see Input and Output Adapters on page 19.</p>
No sound on the videotape when outputting to a VCR	<p><i>Connect your PC audio to the VCR:</i></p> <p>Left and right audio output from your VCR must be connected to your ALL-IN-WONDER RADEON family card (note that S-Video does not provide an audio connection). For instructions, see Input and Output Adapters on page 19.</p>

Video problems ...

Video is unstable or only black and white	<p>Check that you are using the correct broadcast standard format:</p> <ul style="list-style-type: none">• For proper operation, you must specify your country in the TV Channels Initialization Wizard.• Check the quality of your incoming TV signal on another receiver; bad reception may be the cause.• Try connecting your tuner directly to the cable TV or antenna source. Too many splitters in the cable will degrade the signal.
There is no video or audio	<ul style="list-style-type: none">• Ensure that your cable or antenna is connected.• In the TV Video Settings page, ensure that the video connector is set to the correct source.• Check that the audio and video connectors are securely plugged into the correct jacks.• Check that your video card is securely seated in its slot. Please refer to the user guide for the card location.
Video capture stops unexpectedly	<ul style="list-style-type: none">• Video files are typically very large; ensure that you have sufficient disk space.• Ensure that you are capturing to the correct hard disk — click the Disk Space Settings button in the Digital VCR settings page.• The maximum file size for the FAT 32 file system is 4 Gigabytes. You can reduce the file size by reducing the frame size of the capture in Digital VCR settings. MPEG files are usually much smaller than AVI files.• Disable screen savers while capturing.• Disable Power management while capturing.

Dropped frames during video capture

Dropped frames during video capture indicates that some part of the system is not fast enough to keep up with the capture. Capturing video is a very demanding task for even the most powerful system. To achieve the best results, you must dedicate the PC to capture, and ensure that nothing else is active during capture.

- Defragment your hard drive
- A large, dedicated disk is recommended if you plan to do much video capture
- Ensure that DMA is enabled for your hard drive, to improve disk access speed and free up the system CPU
- Close all other running tasks, including those in the System Tray — clock, popup reminders, virus scanners, etc.
- Close and exit from any Task Scheduler
- Do not log on to your network
- Do not connect USB devices while capturing
- Do not open or close CD-ROM trays while capturing
- Do not move the mouse while capturing

MPEG capture requires a very fast CPU to encode the video.

- Select I Frame Only in the Digital VCR tab in Setup
- Reduce the Motion Estimation slider to 50% or 25%
- Reduce the frame size of the capture

AVI capture creates very large file very quickly, and requires a fast hard disk system.

Try a lower frame size, for example, 320x240. If you do not drop frames using 320x240 frame size, but frame drops do occur at larger frame sizes, your hard disk may not be fast enough.

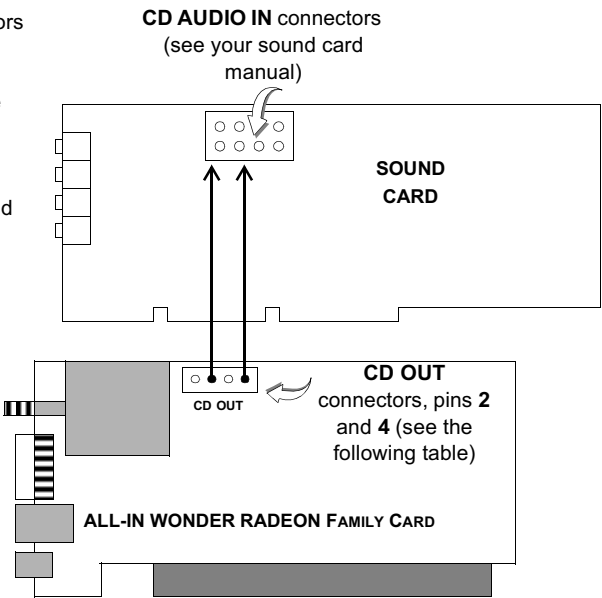
Captured video has horizontal lines around the action

- If you are capturing to AVI format, reduce the line count in the Frame Size. For example, change the frame size from 480x480 to 480x240. In the Digital VCR Settings page, click the **Set Custom...** button, then click the **Edit...** button, choose your AVI preset, then edit the frame size.
- If you are capturing in MPEG format, ensure that **Deinterlacing** is checked. In the Digital VCR Settings page, click the **Set Custom...** button, then click the **Edit...** button, choose your MPEG preset, then check **Deinterlacing**.

CD Audio Connectors

The following illustration shows the optional, internal CD audio connectors on your ALL-IN-WONDER RADEON family card.

The CD connectors are provided for internal audio connection. The internal audio cabling (not included) must match your sound card.



This table lists the pin assignments for the CD audio connectors on your card.

ALL-IN-WONDER RADEON Family CARD	SIGNAL	PIN
J1	CD OUT	Pin 1 - GND
J1	CD OUT	Pin 2 - LEFT OUT
J1	CD OUT	Pin 3 - GND
J1	CD OUT	Pin 4 - RIGHT OUT

To Remove the ATI Multimedia Center

- 1** In the Windows[®] taskbar, click **Start**.
- 2** Point to **Settings ►**.
- 3** Click **Control Panel**.
- 4** Double-click **Add/Remove Programs**.
The Add/Remove Programs Properties dialog appears.
- 5** Click the **Install/Uninstall** tab
- 6** Select **ATI Multimedia Center** from the list.
- 7** Click the **Add/Remove...** button.
- 8** Click **Yes** to remove the ATI Multimedia Center.
- 9** Click **Yes** to restart your computer.

To remove the ALL-IN-WONDER RADEON family drivers

- 1** In the Windows[®] taskbar, click **Start**.
- 2** Point to **Settings ►**.
- 3** Click **Control Panel**.
- 4** Double-click **Add/Remove Programs**.
The Add/Remove Programs Properties dialog appears.
- 5** Click the **Install/Uninstall** tab.
The ATI Uninstall dialog appears.
- 6** Select **ATI Display Driver** from the list.
- 7** Click the **Add/Remove...** button.
- 8** Click **Yes** to remove the ALL-IN-WONDER RADEON family driver.
- 9** Click **Yes** to restart your computer.

Japanese users please note ...

Japanese versions of the ALL-IN-WONDER RADEON 8500 and 8500DV and the ALL-IN-WONDER RADEON 7500 support stereo TV and Secondary Audio Program (SAP). The ALL-IN-WONDER RADEON does not support stereo TV and SAP.

Compliance Information

FCC Compliance Information

The ALL-IN-WONDER RADEON family of cards complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

- The use of shielded cables for connection of the monitor to the graphics card is required to ensure compliance with FCC regulations.
- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Industry Canada Compliance Statement

ICES-003 This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe B Respecte toutes les exigences du Règlement sur le matériel brouiller du Canada.

CE Compliance Information

EMC Directive 89/336/EEC and Amendments 92/31/EEC and 93/68/EEC, for Class B Digital Device.

EN 55022/CISPR 22, Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement.

Warning: This is a Class B product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

EN 55024/CISPR24, Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement (EN 61000-4-2, EN 61000-4-3, ENV 50204, EN 61000-4-4, EN 6100-4-6)

Low Voltage Directive for ALL-IN-WONDER products

73/23/EEC - The Low Voltage Directive

EN 60950: 1992+A1+A2+A3+A4 - Safety of Information Technology Equipment

Conformité aux normes Européennes

Directive EMC 89/336/CEE et amendements 92/31/CEE et 93/68/EECCEE, dispositif numérique de classe B.

EN 55022/CISPR 22, Limites et méthodes de mesure des caractéristiques d'interférences radiophoniques, Matériel des technologies de l'information Equipement de Technologie de l'Information - Caractéristiques Perturbations Radio - Limites et méthodes de mesure.

Mise en garde : ceci est un produit de classe B. Il risque de produire des interférences radiophoniques dans un environnement domestique, auquel cas l'utilisateur peut avoir à prendre les mesures adéquates.

EN 55024, Limites et méthodes de mesure des caractéristiques d'immunité, Matériel des technologies de l'information Equipement de Technologie de l'Information - Caractéristiques d'Immunité - Limites et méthodes de mesure (EN 61000-4-2, EN 61000-4-3, ENV 50204, EN 61000-4-4, EN 61000-4-6).

Directive basse tension pour les produits ALL-IN-WONDER
73/23/CEE - Directive basse tension.

EN 60950 : 1992+A1+A2+A3+A4 - Sécurité du matériel des technologies de l'information.électrique des équipements de Technologie de l'Information

CE Konformitätserklärung

EMC Richtlinie 89/336/EEC und Änderungen 92/31/EEC und 93/68/EEC, Digitales Gerät der Klasse B.

EN 55022/CISPR 22, Grenzwerte und Meßverfahren für Funkstörungen von Einrichtungen der Informationstechnik.

Warnung: Dies ist ein Erzeugnis der Klasse B. Dieses Erzeugnis kann Funkstörungen im Wohnbereich verursachen; in diesem Fall können entsprechende Maßnahmen seitens des Benutzers erforderlich sein.

EN 55024, Einrichtungen der Informationstechnik, Störfestigkeitseigenschaften, Grenzwerte und Prüfverfahren (EN 61000-4-2, EN 61000-4-3, ENV 50204, EN 61000-4-4, EN 61000-4-6).

Low Voltage Directive
[Niederspannungsrichtlinie] für ALL-IN-WONDER Produkte
73/23/EEC - Low Voltage Directive [Niederspannungsrichtlinie].

EN 60950: 1992+A1+A2+A3+A4 - Sicherheit für Einrichtungen der Informationstechnik.

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Safety instructions for TV tuner products



IMPORTANT SAFETY INSTRUCTIONS

- **Read Instructions** - All the safety and operating instructions should be read before the product is operated.
- **Retain Instructions** - The safety and operating instructions should be retained for future reference.
- **Heed Warnings** - All warnings on the product and the operating instructions should be adhered to.
- **Compatibility** - This option card is for use only with IBM AT or compatible UL Listed personal computers that have Installation Instructions detailing user installation of card cage accessories.
- **Grounding** - CAUTION: For Continued Protection Against Risk of Electric Shock and Fire, This Accessory Should Be Installed Only In Products Equipped With A Three-wire Grounding Plug, A Plug Having a third (Grounding) Pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace the obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
- All option card securement pins shall be completely tightened as to provide continuous bonding between the option card and the PC chassis.
- **Outdoor Antenna Grounding** - Since an outdoor antenna or cable system is connected to the product, be sure that the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to the antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection of grounding electrodes, and requirements for the grounding electrode.
- **Lightning** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet, and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- **Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other light or power circuits, or where it can fall into such power lines or circuits.
- When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them may be fatal.
- **Note to CATV System Installer** - This reminder is provided to call the CATV systems installer's attention to Section 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.